

# CHIUNG-YU HUANG, PhD

Mathematical Statistician  
Biostatistics Research Branch, NIAID, NIH

## CONTACT INFORMATION

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## EDUCATION

1997-2002	<b>Ph.D.</b> in Biostatistics Johns Hopkins University, Baltimore, MD, USA
1996-1997	PhD course work in mathematics National Tsing-Hua University, Hsinchu, Taiwan
1994-1996	<b>M.S.</b> in Mathematics National Tsing-Hua University, Hsinchu, Taiwan
1991-1994	<b>B.S.</b> in Mathematics, <i>Summa Cum Laude</i> National Tsing-Hua University, Hsinchu, Taiwan

## POSITIONS

2004-present	Mathematical Statistician Biostatistics Research Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD
2002-2004	Assistant Professor Division of Biostatistics, School of Public Health, University of Minnesota, Minneapolis, MN
1997-2002	Research and Teaching Assistant Department of Biostatistics, Johns Hopkins University, Baltimore, MD
1994-1997	Research and Teaching Assistant Department of Mathematics, National Tsing-Hua University, Hsinchu, Taiwan

## HONORS AND AWARDS

2007	NIAID Merit Award National Institute of Allergy and Infectious Diseases National Institute of Health, Bethesda, MD
2005, 2006 2007	Special Act or Service Award Biostatistics Research Branch National Institute of Allergy and Infectious Diseases National Institute of Health, Bethesda, MD
2005	Performance Award for special achievement Biostatistics Research Branch National Institute of Allergy and Infectious Diseases National Institute of Health, Bethesda, MD
2003-2004	Grant-in-Aid of Research, Artistry, and Scholarship University of Minnesota, Minneapolis, MN
2002	Margaret Merrell Award for outstanding research Department of Biostatistics, Johns Hopkins University
1997-2002	Five-year departmental scholarship Department of Biostatistics, Johns Hopkins University
1994	Graduated first in class National Tsing-Hua University, Taiwan
1991-1994	Four-year college scholarship for gifted students in mathematics and science, Taiwanese Ministry of Education
1991-1994	President's Academic Awards (3 times) National Tsing-Hua University, Hsin-Chu, Taiwan

## PROFESSIONAL ACTIVITIES

Referee	Biometrics Lifetime Data Analysis Controlled Clinical Trials Statistics in Medicine Journal of the Royal Statistical Society: Series C Pharmaceutical Statistics
External Referee	Health Care Efficiency Research Program of the Netherlands Organization for Health Research and Development (ZonMw), Netherlands

## PUBLICATIONS

### *Refereed Articles:*

1. Liang, K.-Y., **Huang, C.-Y.**, and Beaty, T. H. (2000). A unified sampling approach for multipoint analysis of qualitative and quantitative traits in sib pairs. *American Journal of Human Genetics* 66, 1631-1641.
2. Rosenblatt, A., Brinkman, R. R., Liang, K. Y., Almqvist, E. W., Margolis, R. L., **Huang, C.-Y.**, Sherr, M., Franz, M. L., Abbott, M. H., Hayden, M. R. and Ross, C. A. (2001). Familial influence on age of onset among siblings with Huntington disease. *American Journal of Medical Genetics* 105, 399-403.
3. Hu, T.-C., **Huang, C.-Y.**, and Rosalsky, A. (2003). On stability of trimmed sums. *Probability and Mathematical Statistics* 23, 1131-1150.
4. **Huang, C.-Y.** and Wang, M.-C. (2004). Joint modeling and estimation for recurrent event processes and failure time data. *Journal of the American Statistical Association* 99, 1153-1165.
5. **Huang, C.-Y.** and Wang, M.-C. (2005). Nonparametric estimation of the bivariate distribution of recurrence times. *Biometrics* 61, 392-402.
6. Chiang, C.-T., Wang, M. -C., and **Huang, C.-Y.** (2005). Kernel estimation of rate function for recurrent event data. *Scandinavian Journal of Statistics* 32, 77-91.
7. Bockting, W. O., **Huang, C.-Y.**, Ding, H., Robinson, B. E., and Rosser, B. R. S. (2005). Are transgender persons at higher risk for HIV than other sexual minorities?: A comparison of HIV prevalence and risks. *International Journal of Transgenderism* 8, 123-132.
8. Khaliq, A. A., Dimassi, H., **Huang, C.-Y.**, Narine, L., and Smego, R. A. (2005). Disciplinary action against physicians: Characteristics and predictors. *American Journal of Medicine* 118, 773-777.
9. **Huang C.-Y.**, Wang, M.-C., and Zhang, Y. (2006). Analyzing panel count data with informative observation times. *Biometrika* 93, 763-775.
10. Zonios D., Faloon, J., **Huang, C.-Y.**, and Bennett, J. (2007). Cryptococcosis and idiopathic CD4 lymphocytopenia. *Medicine*, 86(2):78-92.
11. Khaliq, A. A., **Huang, C.-Y.**, Ganti, A. K., Invie, K., and Smego, R. A. (2007). Comparison of resource utilization and clinical outcomes between teaching and non-teaching medical services. *Journal of Hospital Medicine* 2(3): 150-157.
12. Fay, M. P., **Huang C.-Y.**, and Twum-Danso, N. A. Y. (2007). Monitoring rare serious adverse events from a new treatment and testing for difference from a baseline rate. *Clinical Trials* 4, 598-610.
13. **Huang C.-Y.**, Qin, J., and Zou, F. (2008). Empirical likelihood based inference in a genetic mixture model. To appear in *Canadian Journal of Statistics*.

14. Luo, X. H., Wang, M.-C., and **Huang, C.-Y.**, A comparison of various rate functions of a recurrent event process in the presence of a terminal event. Accepted by *Statistical Methods in Medical Research*.
15. Engler, R. J. M., Nelson, M. R., Klote, M. M., VanRaden, M. J., **Huang, C.-Y.**, Cox, N. J., Klimov, A., Treanor, J. J., Keitel, W. A., Nichol, K. L., Carr, W. W., and Walter Reed Health Care System Influenza Vaccine Consortium (WRHCS-IVC) (2007). Half dose trivalent inactivated influenza vaccine (TIV) 2004-05 compared to full dose: Age, dose, and gender effects on immune responses. Accepted by *Archives of Internal Medicine*.

*Abstracts and Posters:*

1. Stoel, B. C., **Huang, C.-Y.**, Putter, H., and Rutman O. (2005). "Volume correction of CT densitometry in drug evaluation trials on pulmonary emphysema: a simulation study," European Respiratory Society Congress, Copenhagen, Denmark, September, 2005.
2. Tavel, J. A., **Huang, C.-Y.**, Shen, J., Follman, D., Shah, A., Metcalf, J., Davey, R., Polis, M., Kovacs, J., Masur, H. and Lane, H. C. "Interferon alpha therapy produces significant decreases in serum HIV load," International AIDS Conference, Toronto, Canada, August, 2006.
3. Fay, M. P., **Huang C.-Y.**, and Twum-Danso, N. A. Y., Monitoring rare serious adverse events from a new treatment and testing for difference from a baseline rate. Fourth meeting of the Eastern Mediterranean Region of the International Biometric Society (EMR-IBS), Israel, January, 2007.
4. **Huang, C.-Y.**, Qin, J., and Wang, M.-C., "Semiparametric analysis for recurrent event data with time-dependent covariates and informative censoring," 11th International Workshop on HIV Observational Databases, Monte Carlo, Monaco, March 2007.
5. K. Kayentao, A. Ongoiba, G. Weiss, S. Doumbo, D. Doumtabe, Y. Kone, S. Diakite, A. Guindo, C.-Y. Huang, R. M. Fairhurst, O. Doumbo, L. H. Miller, S. K. Pierce, B. Traore, P. D. Crompton. "Sickle Cell Trait is Associated with a Delayed Presentation and Decreased Incidence of Uncomplicated Malaria in Mali: Results of a Cohort Study". The American Society of Tropical Medicine and Hygiene 56<sup>th</sup> Annual Meeting, Philadelphia, PA, November 4-8, 2007.
6. Read, S. W., Lempicki, R. A., Mascio, M. Di, Srinivasula, S., Burke, R., Sachau, W., Bosch, M., Adelsberger, J. W., Sereti, I., Davey, R. T., Jr., Tavel, J., **Huang, C.-Y.**, Issaq, H. J., Fox., S. D., Lane, H. C., and Kovacs, J. A. (2007). Rate of CD4 T cell turnover following intermittent IL-2 therapy is predictive of change in CD4 T cell count in HIV-infected patients. The 15th Conference on Retroviruses and Opportunistic Infections, Boston, MA, February 3-6, 2008.

*Submitted Articles:*

1. Qin, J., **Huang C.-Y.**, and Follmann, D. A., Empirical likelihood-based estimation of treatment effect in a pretest-posttest study. In revision for *Journal of the American Statistical Association*.
2. Read, S. W., Lempicki, R. A., Mascio, M. Di, Srinivasula, S., Burke, R., Sachau, W., Bosch, M., Adelsberger, J. W., Sereti, I., Davey, R. T., Jr., Tavel, J., **Huang, C.-Y.**, Issaq, H. J., Fox, S. D., Lane, H. C., and Kovacs, J. A. (2007). Rate of CD4 T cell turnover following intermittent IL-2 therapy is predictive of change in CD4 T cell count in HIV-infected patients. In revision for *Journal of Infectious Diseases*.
3. **Huang, C.-Y.**, Qin, J., and Wang, M.-C., Semiparametric analysis for recurrent event data with time-varying covariates and informative censoring. Submitted.
4. Tavel, J. A., **Huang, C.-Y.**, Shen, J., Metcalf, J. A., Dewar, R., Shah, A., Follmann, D. A., Herpin, B., Davey, R. T., Polis, M. A., Kovacs, J., Masur, H., and Lane, H. C. (2007). Interferon alpha produces significant decreases in HIV load. Submitted to *The Journal of Infectious Diseases*.

*Submitted Abstract:*

*In progress:*

1. Recurrent event processes with size and shape parameters. (With Mei-Cheng Wang, Jing Qin and Yijian Huang)
2. Marginal analysis of recurrent event processes and failure time data. (With Mei-Cheng Wang)

## PRESENTATIONS

- 2007 Semiparametric analysis for recurrent event data with time-dependent covariates and informative censoring. Joint Statistical Meetings, Salt Lake City, UT, July 2007.
- 2007 Invited talk, “Semiparametric analysis for recurrent event data with time-dependent covariates and informative censoring,” Division of Biostatistics and Bioinformatics, National Health Research Institutes, Miaoli, Taiwan, June 2007.
- 2007 Invited talk, “Semiparametric analysis for recurrent event data with time-dependent covariates and informative censoring,” Taipei International Statistical Symposium and ICSA International Conference, Taipei, Taiwan, June 2007.
- 2007 Invited talk, “Semiparametric analysis for recurrent event data with time-dependent covariates and informative censoring,” Department of Biostatistics, University of Medicine and Dentistry of New Jersey, May 2007.
- 2007 Invited talk, “Semiparametric analysis for recurrent event data with time-dependent covariates and informative censoring,” Division of Epidemiology, Statistics, & Prevention Research, National Institute of Child Health and Human, National Institutes of Health, Bethesda, MD, March, 2007.
- 2006 Invited talk, “Analyzing panel count data with dependent observation times,” Division of Biostatistics and Bioinformatics Department of Epidemiology and Preventive Medicine, University of Maryland, Baltimore, October, 2006.
- 2005 Analyzing panel count data with dependent observation times. WNAR meetings. Fairbanks, AL.
- 2005 Invited talk, “Analyzing panel count data with dependent observation times. Statistics seminars,” Institute of Statistics, National Tsing-Hua University, Hsinchu, Taiwan.
- 2004 Nonparametric estimation of bivariate recurrence time distribution. ENAR meetings, Pittsburgh, PA.
- 2003 Invited talk, “Analyzing panel count data with dependent observation times. Statistics seminars,” Department of Statistics, University of Minnesota, MN.
- 2003 Analyzing panel count data with dependent observation times. Joint Statistical Meetings, San Francisco, CA.
- 2002 Joint modeling and estimation for recurrent event process and failure time data. Joint Statistical Meetings, New York, NY.
- 2002 Invited talk, Modeling and estimation for recurrent event process and failure time data. Biostatistics seminars, University of Minnesota, Minneapolis, MN.
- 2002 Invited talk, Modeling and estimation for recurrent event process and failure time data. Biostatistics seminars, Washington University, St. Louis, MO.
- 2002 Invited talk, Modeling and estimation for recurrent event process and failure time data. Lombardi Comprehensive Cancer Center, Washington, DC.

- 2002 Invited talk, Modeling and estimation for recurrent event process and failure time data. ENAR meetings, Arlington, VA.
- 2002 Invited talk, Modeling and estimation for recurrent event process and failure time data. Statistics seminars, University of Maryland, Baltimore County, MD.
- 1999 Statistical methods for multiple events data. Longitudinal/survival working group seminar. Department of Biostatistics, Johns Hopkins University.